

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	322	52/732.1.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:06
L2	497	52/731.2.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:06
L3	126	52/732.2.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:06
L4	166	52/731.3.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:32
L5	254	L3 L4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:06
L6	560	L1 L5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:06
L7	990	L2 L6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:06
L8	279301	(c or box) with (channel or beam)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 16:06
L9	203	L7 and L8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 16:06

## EAST Search History

L10	186	end and L9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 16:21
L11	390	29/897.31.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:06
L12	181	29/897.312.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:06
L13	286	29/897.35.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:06
L14	518	29/897.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:06
L15	1318	L11 L12 L13 L14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:06
L16	125	L15 and L8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 16:16
L17	109	end and L16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 16:17
L18	125	16 17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 16:17

## EAST Search History

L19	40	("0768594"   "1331247"   "1335609"   "1997876"   "2029645"   "2039398"   "2167835"   "2389573"   "2916111"   "3332197"   "4069638"   "4272073"   "4424652"   "4793113"   "5014487"   "5426906"   "5588273"   "5625997"   "5661945"   "5687538"   "5692353"   "5842318"   "5848512"   "5904025"   "6131362"   "6145270"   "6151858"   "6170217"   "6296287"   "6415576").PN. OR ("6802170").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/15 16:17
L20	179	10 not 17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 16:21
L21	33	("1570310"   "2356309"   "2508032"   "3278043"   "3606418"   "4461134"   "4870794"   "4881355"   "5079884"   "5129204").PN. OR ("5464302").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/15 16:22
L22	20	("3204382"   "3727357"   "3823523"   "3900269"   "3933222"   "4619098"   "5464302").PN. OR ("5803653").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/15 16:24
L23	11	("3606418").URPN.	USPAT	OR	OFF	2006/08/15 16:31
L24	7	("1743327" "1963416" "1970422" "2583439" "2893073" "2950789" "3332197").pn.	USPAT	OR	OFF	2006/08/15 16:32
L25	245	52/726.2.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:37
L26	473853	overlap	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:37
L27	597210	overlapp\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:37
L28	865560	26 27	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:37

## EAST Search History

L29	7936	8 same 28	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:37
L30	2652	8 with 28	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:37
L31	2501	7 15 25	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:38
L32	19	30 and 31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:43
L33	4	corrosion.ab. and 31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:52
L34	32	("1950677"   "3553970"   "3798867"   "3939665"   "3996757"   "4019301").PN. OR ("4081941").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/15 16:44
L35	21	("0141293"   "0424427"   "0444579"   "0757804"   "2125692"   "3284977"   "3420032"   "3606418"   "4081941"   "4550539"   "4649683"   "4733986"   "4738071").PN. OR ("4993095").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/15 16:44
L36	11	("2125692").URPN.	USPAT	OR	OFF	2006/08/15 16:46
L37	4	("444579").URPN.	USPAT	OR	OFF	2006/08/15 16:50
L38	32	seal\$3.ab. and 31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:57
L39	29	("0192381"   "0489498"   "0586661"   "1408232"   "1409524"   "1460014"   "1758150"   "2020062"   "2075262"   "2762398"   "3545152").PN. OR ("3834103").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/15 16:54

## EAST Search History

L40	5696	seal\$3 with 8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 17:00
L41	0	weatherproof\$3.ab. and 31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:57
L42	0	weather-proof\$3.ab. and 31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:57
L43	3	weather-proof\$3 and 31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:57
L44	15	weatherproof\$3 and 31	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:57
L45	17	43 44	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 16:57
L46	121	sealant with 8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 17:30
L47	29	"4562681" "4736555"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 17:31
L48	18	("2053462"   "2986241"   "3313082"   "3332195"   "3466824"   "3477189"   "3688461"   "3696574"   "3873219"   "4183190"   "4483118"   "4484430"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/15 17:32
S1	0	"10761519".an.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/14 15:12

## EAST Search History

S2	0	"10761519"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/14 15:12
S3	11	"761519"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/14 15:17
S4	126	52/732.2.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 16:47
S5	322	52/732.1.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 15:18
S6	166	52/731.3.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 15:34
S7	497	52/731.2.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 15:18
S8	35	("1997876"   "2101349"   "2975874"   "2990922"   "3055399"   "3222841"   "3382639"   "3417537"   "3562992"   "3698149"   "3700385"   "3789563"   "4570406"   "4640314"   "4809476"   "4905442"   "4987717"   "5031083"   "5134250"   "5657590"   "5661936"   "5735097"   "5881508").PN. OR ("6385941").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/14 15:20
S9	40	("2088781"   "2105771"   "2950789"   "3332197"   "3423896"   "3536345"   "3680271"   "3845601").PN. OR ("4809476").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/14 15:23
S10	13	("2975874").URPN.	USPAT	OR	OFF	2006/08/14 15:31
S11	2	("0686817" "1997876").pn.	USPAT	OR	OFF	2006/08/14 15:31
S12	651	138/163,171.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 15:34

## EAST Search History

S13	389	29/897.31.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 15:34
S14	181	29/897.312.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 15:34
S15	286	29/897.35.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 15:34
S16	518	29/897.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 15:34
S17	8	("2356309"   "3332197"   "3890755"   "5457927"   "5464302"   "5983589"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/14 15:36
S18	254	S4 S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 16:47
S19	306	S5 not S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 16:51
S20	560	S5 S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 16:52
S21	430	S7 not S20	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 17:28
S22	161	c and S21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 17:28

## EAST Search History

S23	32	("0426558"   "1360720"   "1959135"   "2508032"   "3088749"   "3332197"   "3517474"   "3753326").PN. OR ("4002000").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/14 17:15
S24	5	("2950789").URPN.	USPAT	OR	OFF	2006/08/14 17:27
S25	204576	end adj end	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 17:28
S26	990	S7 S20	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 17:28
S27	53	S25 and S26	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 17:37
S28	0	missmatch\$3 and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 17:37
S29	0	miss-match\$3 and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/14 17:37
S30	23	match\$3 and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:28
S31	2	"20060117683"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 11:00
S32	0	"10761519".an.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S33	0	"10761519"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32

## EAST Search History

S34	11	"761519"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S35	322	52/732.1.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S36	497	52/731.2.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S37	126	52/732.2.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S38	35	("1997876"   "2101349"   "2975874"   "2990922"   "3055399"   "3222841"   "3382639"   "3417537"   "3562992"   "3698149"   "3700385"   "3789563"   "4570406"   "4640314"   "4809476"   "4905442"   "4987717"   "5031083"   "5134250"   "5657590"   "5661936"   "5735097"   "5881508").PN. OR ("6385941").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/15 10:32
S39	40	("2088781"   "2105771"   "2950789"   "3332197"   "3423896"   "3536345"   "3680271"   "3845601").PN. OR ("4809476").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/15 10:32
S40	13	("2975874").URPN.	USPAT	OR	OFF	2006/08/15 10:32
S41	2	("0686817" "1997876").pn.	USPAT	OR	OFF	2006/08/15 10:32
S42	166	52/731.3.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S43	651	138/163,171.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S44	390	29/897.31.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32

## EAST Search History

S45	181	29/897.312.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 11:13
S46	286	29/897.35.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S47	518	29/897.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S48	8	("2356309"   "3332197"   "3890755"   "5457927"   "5464302"   "5983589").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/15 10:32
S49	254	S37 S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S50	306	S35 not S49	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S51	560	S35 S49	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S52	430	S36 not S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S53	161	c and S52	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S54	32	("0426558"   "1360720"   "1959135"   "2508032"   "3088749"   "3332197"   "3517474"   "3753326").PN. OR ("4002000").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/15 10:32
S55	5	("2950789").URPN.	USPAT	OR	OFF	2006/08/15 10:32

## EAST Search History

S56	204637	end adj end	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S57	990	S36 S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S58	53	S56 and S57	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S59	0	missmatch\$3 and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S60	0	miss-match\$3 and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S61	23	match\$3 and S43	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 10:32
S62	1318	S44 S45 S46 S47	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/08/15 11:00
S63	648218	join\$3 with end	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 11:01
S64	185	S62 and S63	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 11:06
S65	131	c and S64	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 11:05

## EAST Search History

S66	2311	long adj beam	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 11:05
S67	4	S62 and S66	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 11:14
S68	279301	(c or box) with (channel or beam)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 11:14
S69	125	S62 and S68	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 11:14
S70	16	S43 and S68	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 11:16
S71	203	S57 and S68	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 11:15
S72	186	end and S71	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 11:16
S73	109	end and S69	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/08/15 11:16